

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/076094 A2

(51) International Patent Classification⁷: **G05B 19/4099**

(21) International Application Number:
PCT/EP2005/000646

(22) International Filing Date: 24 January 2005 (24.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2004A000166 3 February 2004 (03.02.2004) IT

(71) Applicant (for all designated States except US): FIN-TRADE S.R.L. [IT/IT]; 60, Via Mazzini, I-25020 Alfianello (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BERTOLA, Paolo [IT/IT]; 30, Viale della Vittoria, I- Introbio (IT). JULITA, Francesca [IT/IT]; 24, Via Lungo Lario Cadorna, I-22053 Lecco (IT).

(74) Agents: FERRAIOLI, Ruggero et al.; Via Napo Torriani, 10, I-20124 Milano (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

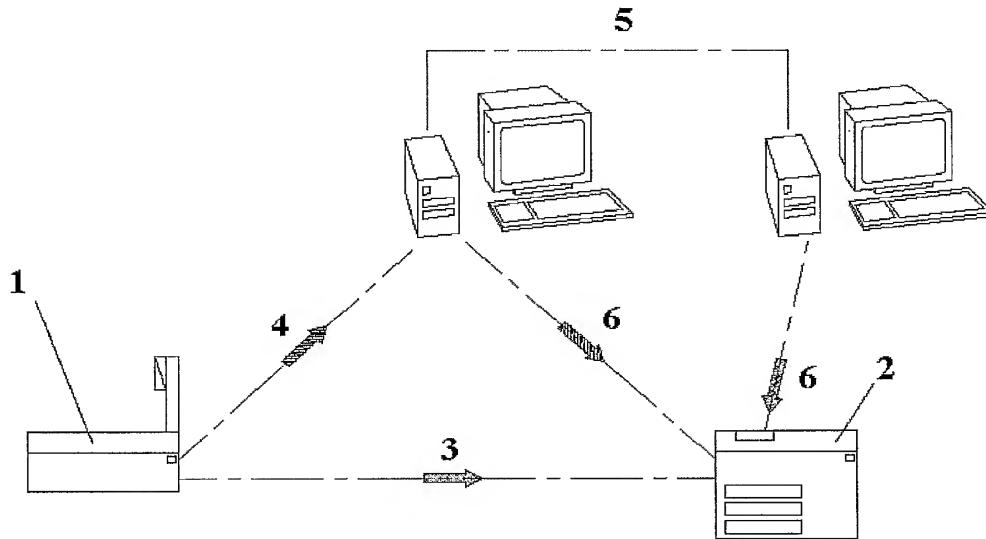
— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: ELECTRONIC PHOTO-OPTICAL SYSTEM FOR SURVEYING, DIGITALIZING AND REPRODUCING THE EXTERNAL SURFACE OF A THREE-DIMENSIONAL OBJECT, EITHER VIRTUALLY OR IN PLASTIC, COMPOSITE OR PAPERY MATERIAL



WO 2005/076094 A2

(57) Abstract: The acquisition and reproduction units of the system (1, 2) are interconnected by means of a network (3, 4, 6) in order to survey and regenerate the outline of any kind of object and to reproduce it either virtually in a CAD 3D system or materially in plastic, composite or papery material.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.